

INCH-POUND

MIL-D-83532A
AMENDMENT 2
30 June 1994
SUPERSEDING
AMENDMENT 1
5 February 1993

MILITARY SPECIFICATION
DELAY LINES, ACTIVE
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-D-83532A, dated 30 December 1991, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 2

* Standards, Military, delete "MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes."

PAGE 3

Add the following new paragraph:

"3.3.4.1 ESD identifier/index mark. Delay lines supplied to this specification are considered to be ESD class 1 devices susceptible to ESD voltages of 0 to 1,999 volts. Delay lines shall be marked on top, over pin 1, with a single equilateral triangle (Δ) ESD identifier (see 3.20.2c)."

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Add the following new paragraph:

"3.4.6.2 Meniscus. Leads shall be free of case meniscus and other foreign material and shall be solderable for a minimum of .010 inch (0.25 mm) above the seating plane of the delay line."

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3.20.2, delete and substitute the following:

"3.20.2 Part marking. Delay lines shall be marked on the top in accordance with method I of MIL-STD-1285 (except item c) with the following, as a minimum:

- a. JAN marking (see 3.20.1).
- b. PIN (see 1.2.1).
- c. ESD identifier/index mark. The mark shall be in accordance with 3.3.4.1 herein. The MIL-STD-1285 ESD mark shall not be used.
- d. Manufacturer's source code or logo.
- e. Date of manufacturer's code."

* 4.5.1.2.1, delete and substitute:

"4.5.1.2.1 Sampling plan. Each delay line offered for inspection shall be subjected to the tests in subgroup 1. Lots having more than 5 percent total rejects shall not be furnished on the contracts. Delay lines out of specification limits shall not be shipped with the lot. For subgroup 2, a sample of parts shall be randomly selected in accordance with table IIa. If one or more defects are found, the lot shall be rescreened and the defective parts removed. After screening and removal of defective parts, a new sample of parts shall be randomly selected in accordance with table IIa. If one or more defects are found in the second sample, the lot shall be rejected and shall not be supplied to this specification."

* TABLE II, delete and substitute the following:

" TABLE II. Group A inspection.

Inspection	Requirement paragraph	Test method paragraph	Sampling plan
<u>Subgroup I</u>			
Thermal shock (15 cycles)	3.16	4.6.14	100 percent inspection
Seal	3.10	4.6.8	
Delay time	3.11.1	4.6.9.1.1	
Rise time	3.11.2	4.6.9.1.2	
DC characteristics	3.11.4	4.6.9.1.4	
<u>Subgroup II</u>			
Delay time at temperature extremes	3.11.3	4.6.9.1.3	See table IIa
Dimensions	3.5.1	4.6.2	
Visual inspection	3.5.2	4.6.3	

* 4.5.1.2.2, delete in its entirety.

* 4.5.1.2.3, renumber as 4.5.1.2.2.

* Add the following new table IIa:

" TABLE IIa. Group A, subgroup II inspection sampling plan.

Lot size	Sample size
1 to 13	All
14 to 150	13
151 to 280	20
281 to 500	29
501 to 1,200	34
1,201 to 3,200	42
3,201 to 10,000	50
10,001 to 35,000	60

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AMENDMENT 2

TABLE III, delete and substitute the following:

TABLE III. Group B inspection.

Inspection	Requirement paragraph	Test method paragraph
<u>Subgroup I (4 units)</u>		
Resistance to solvents	3.7	4.6.5
Solderability	3.6	4.6.4
Salt spray (metal cases only)	3.12	4.6.10
Shock	3.14	4.6.12
Electrical characteristics	3.11	4.6.9
<u>Subgroup II (4 units)</u>		
Life	3.18	4.6.16
Terminal strength	3.9	4.6.7
Electrical characteristics	3.11	4.6.9

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4.5.2.1.1, delete and substitute the following:

"4.5.2.1.1 Sampling plan. Every 12 months, eight sample units of any total delay value of each specification sheet produced during the 3-month period prior to the annual inspection shall be subjected to the group B inspection. If, during a 12-month period, qualification testing has been successfully completed on delay lines covered by extent of qualification (see 4.4.4), the group B inspection for that 12-month period may be omitted."

The margins of this amendment are marked with an asterisk or (vertical lines) to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

CONCLUDING MATERIAL

Custodians:
Army - ER
Navy - EC
Air Force - 85

Review activities:
Navy - AS, CG, MC, SH
Air Force - 19, 99
DLA - ES

Preparing activity:
Air Force - 85

Agent:
DLA - ES

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